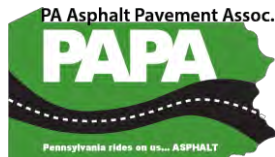


# PAPA Regional Technical Meeting

March 19, 2024  
8:00 AM to 3:00 PM  
District 12

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District Materials Mgr.  
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# Agenda

1. 2023 Asphalt Mix Testing Results
2. 2023 Longitudinal Joint Density Performance
3. 2024 Planned Construction Projects
4. 2024 District Rehabilitation Projects
5. 2024 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District eTicketing Status
8. District 6.3 mm & SMA Projects
9. District RAP Mix Percentages
10. District BMD HWTT/IDEAL-CT Implementation
11. District Innovations & Best Practices
12. 2023 District Issues – Problems
13. 2024 District Changes - Direction

# 2023 Asphalt Mix Testing

## Testing:

- **125 Lots** - Mixture Acceptance by box sample
- **131 Lots** – Density Acceptance by pavement cores

## Retests Requested:

- # Requested – **4**
- Retest Results -
  - # passed **2**
  - # failed **2**

# 2023 Asphalt Mix Testing

## Pay Factors:

- AC Content
  - >100.00%: **92**
  - 100.00%: **5**
  - <100.00%: **20**
- Gradation: No. 200 Sieve
  - >100.00%: **109**
  - 100.00%: **3**
  - <100.00%: **5**

## Pay Factors:

- Gradation: PCS
  - >100.00%: **90**
  - 100.00%: **1**
  - <100.00%: **23**
- Density
  - >100.00%: **97**
  - 100.00%: **16**
  - <100.00%: **18**

# 2023 Asphalt Mix Testing

## Testing:

- 125 Lots- Mixture Acceptance by box sample
- 131 Lots – Density Acceptance by pavement core

## Failure:

- 2 AC Content failures
- 0 Gradation failures
  - # 200 Sieve – n/a
  - # Primary Control Sieve – n/a
- 0 Density failures

## Retests Requested:

- # Requested – 4
- Retest Results -
  - # passed 2
  - # failed 2

# Performance

	Longitudinal Joint Density Summary					
Year	2023	2022	2021	2020	2019	2018
Lots Tested	43	25	24	12	39	48
% Density Range	83.2- 98.7	88.8- 98.0	85.1- 98.2	88.4- 97.4	86.7- 99.0	84.4- 97.2
% Average Density	93.6	94.3	94.5	93.5	93.0	93.3
Incentive Lots						
Zero Lots						
Disincentive Lots						
Total \$ for Incentive Lots	264,375	154,000	147,750	61,868	180,250	184,000
Total \$ for Disincentive Lots	0	0	-15,318	0	-1,200	-8,200
Delta (Incentive - Disincentive)	264,375	154,000	132,432	61,868	179,050	175,800

**REF: Section 405 Evaluation of Bituminous Pavement Longitudinal Joint Density and Payment of Incentive/Disincentive**

# Performance

- Longitudinal Joint Type
  - Which joint type is being utilized most?
    - Tapered (Wedge)
      - We suspect we may get better, or at least equal density with Vertical, however leaving the edge in place over night can potentially cause issues.
  - Are you having any longitudinal joint issues?
    - No issues are being experienced. Avg Jt. Density for the last 25 samples is 92.7%
  - We did a J-Band Pilot on SR906/B10 in 2021. Pilot field views are almost completed. We have not opted to use **VRAM on any other projects to date but aren't ruling it out.**

# 2024 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**

- ECMS#108479, Let Date 4/11/24, SR 19, Washington County, 29,810 Tons
- ECMS#108641, Let Date 3/8/24, SR1020, Fayette County, 38,935 Tons
- ECMS#108817, Let Date 4/18/24, SR 4041, Westmoreland County, 48,170 Tons



# 2024 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**

- ECMS#111238, Let Date 3/14/24, SR 19, Greene County, 12,770 Tons
- ECMS#116178, Let Date 4/11/24, SR 88, Washington County, 11,240 Tons
- ECMS#116237, Let Date 2/29/24, SR 188, Greene County, 1,300 Tons

# 2024 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**

- ECMS#116293, Let Date 7/25/24, SR 70, Westmoreland County, 14,140 Tons
- ECMS#116490, Let Date 5/9/24, SR 79, Washington County, 40,000 Tons
- ECMS#118003, Let Date 5/9/24, SR 21, Greene County, 2,400 Tons

# District Rehabilitation Projects

- **Have you bid and/or completed any crack & seat break & seat projects with asphalt structural overlay in the past few years?**
  - Bid and completed SR366/20R (ECMS#98449) in 2015. Crack & Seat existing 9” Reinforced Concrete Pavement built in 1972. overlaid with Superpave PG64-22 in one direction and crumb rubber in the other direction.
  - None programmed for 2024 or 2025 to date.

# 2024 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR
Fayette Co - 1210	500 tons			6,000 tons		300 tons	
Greene Co - 1220	500 tons			50 tons		50 tons	
Washington Co - 1240	1,000 tons			5,000 tons		3,000 tons	
Westmoreland Co - 1250	5,000 tons			500 tons		500 tons	
<b>TOTAL TONS</b>	<b>7,000 tons</b>			<b>11,550 tons</b>		<b>3,850 tons</b>	

LVR = Low Volume Roads

# District eTicketing Status

- Please discuss your experience with Asphalt eTicketing Projects.
  - Easy to keep track of tickets
  - Lack of access for Contractors and Materials staff
  - Get access for Materials Unit and Contractors (current CT appears to be addressing this).
- Are contractors in your District ready to implement this October? Yes
- - Contractors in D-12 will be ready to implement. One Concrete source will not be able to (not automated).

# District 6.3 mm & SMA Projects

- **List of 2024 6.3 mm Thin Lift projects**
  - n/a
- **List of 2024 SMA Projects**
  1. ECMS#116293, Let Date 7/25/24, SR 70, Westmoreland Co., 5,300 tons SMA
- **Any 2024 or 2025 HiMA SMA Pilot Projects?**
  - - No

# District RAP Mix Percentages

- **Please provide average RAP % for the following mixes:**
  - Wearing - 25% - 442,862 total tons produced
  - Binder - 20% - 126,797 total tons produced
  - Base – 27 % - 143,673 total tons produced
  - Average RAP % of all mixes – 25% - 713,332 total tons
- **What are the impediments to increasing RAP% in the mixes?**
  - Cost of switching PG grades
  - Logistics of trucking alternate PG grades for different terminals
  - Heating capabilities of plants due to high moisture in RAP

## District BMD HWTT/IDEAL-CT Implementation

- **Please discuss District opinion of owner – contractor readiness to implement BMD.**
  - We will be ready to implement
- **Please discuss any issues, problems, opportunities, successes, etc. you would care to share?**
  - The lack of a hard spec to date makes it difficult to know what to tweak to achieve passing/desirable results.



# District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
  - We are using SMA on all interstate projects

## 2023 District Issues - Problems

- **Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?**
  - - No major issues encountered with contractors

## 2024 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
  - eTicketing
  - HWTT/CT Index
- Any staff changes since last year?
  - Rob Powell promoted to Assistant District Materials Mgr.
  - Dan Strosnider hired as TCI in Materials Unit
  - Vacant TCI position – Interviews March 13-14

# Audience Questions/Comments???



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